

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of determining a zero point ~~(V0)~~ of a current sensor in a circuit for operating a gas discharge lamp, ~~characterized by the following process steps~~ the method comprising the acts of:

the switching off a current (11) through the current sensor is
switched off for a short first period during a first half wave (13)
and;

determining a first test value (V6) is determined,;
then switching off the current (11) through the current sensor
is switched off for a short second period during a second half wave
(14) having a different polarity and;

determining a second test value (-V7) is determined,
whereupon;

forming an average value is formed of the two first test
values (V6, -V7), value and the second test value; and

determining the zero point (Vx, V0) is determined by means of
said average value, wherein final test values of the current sensor
immediately before a renewed switch-on of the current is used for
determining the zero point.

2. (Currently Amended) A The method as claimed in claim 1,
characterized in that wherein the switching-off acts takes place in
two the first half waves (13, 14) wave and the second half wave in
quick succession.

Claim 3 (Canceled)

4. (Currently Amended) A method as claimed in claim 1,
characterized in that of determining a zero point of a current
sensor in a circuit for operating a gas discharge lamp, the method
comprising the acts of:

switching off a current through the current sensor for a first
period during a first half wave;

determining a first test value;
switching off the current through the current sensor for a
second period during a second half wave having a different
polarity;
determining a second test value;
forming an average value of the first test value and the
second test value; and
determining the zero point by means of said average value,
wherein an interval between two measurement groups, each group
consisting of two measurements in two respective half waves (13,
14) of different polarity in quick succession, amounts to several
seconds up to minutes.

5. (Currently Amended) A-The method as claimed in claim 4,
~~characterized in that wherein the measuring interval between the~~
two measurement groups is varied.

6. (Currently Amended) A-The method as claimed in claim 1,
~~characterized in that wherein a position (t3, t4) of a current~~
blanking interval void within at least one the first half cycle

wave and the second half wave (13, 14) is varied.

7. (Currently Amended) ~~A The method as claimed in claim 1~~
~~claim 6, characterized in that wherein the lamp current is~~
increased in the time before or after the current blanking
interval.

8. (Previously Presented) A circuit arrangement for a high-
pressure gas discharge lamp implementing a method as claimed in
claim 1.

9. (Previously Presented) A projection system with a circuit
arrangement for high-pressure gas discharge lamps, the circuit
arrangement implementing a method as claimed in claim 1.

Claim 10 (Canceled)